



Datasheet for ABIN705371

## anti-Sphingomyelin Synthase 1 antibody (AA 331-413)



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### 3 Images

#### Overview

Quantity:	100 µL
Target:	Sphingomyelin Synthase 1 (SGMS1)
Binding Specificity:	AA 331-413
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sphingomyelin Synthase 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

#### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Sphingomyelin Synthase 1
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

#### Target Details

Target:	Sphingomyelin Synthase 1 (SGMS1)
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## Target Details

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Alternative Name:	Sphingomyelin Synthase 1 ( <a href="#">SGMS1 Products</a> )
Background:	<p>Synonyms: MOB, MOB1, SMS1, TMEM23, hmob33, Phosphatidylcholine:ceramide cholinephosphotransferase 1, Medulla oblongata-derived protein, Protein Mob, Sphingomyelin synthase 1, Transmembrane protein 23, SGMS1</p> <p>Background: Sphingomyelin synthases synthesize the sphingolipid, sphingomyelin, through transfer of the phosphatidyl head group, phosphatidylcholine, on to the primary hydroxyl of ceramide. The reaction is bidirectional depending on the respective levels of the sphingolipid and ceramide. Golgi apparatus SMS1 directly and specifically recognizes the choline head group on the substrate, requiring two fatty chains on the choline-P donor molecule in order to be recognized efficiently as a substrate. Major form in macrophages. Required for cell growth in certain cell types such as HeLa cells. Suppresses BAX-mediated apoptosis and also prevents cell death in response to stimuli such as hydrogen peroxide, osmotic stress, elevated temperature and exogenously supplied sphingolipids. May protect against cell death by reversing the stress-inducible increase in levels of proapoptotic ceramide.</p>
Gene ID:	259230
UniProt:	<a href="#">Q86VZ5</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a>

## Application Details

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Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

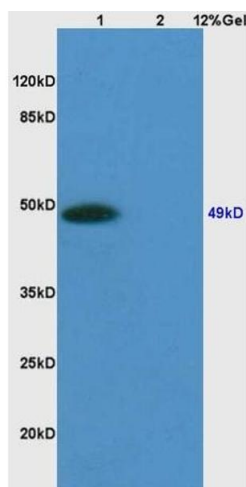
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Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

## Handling

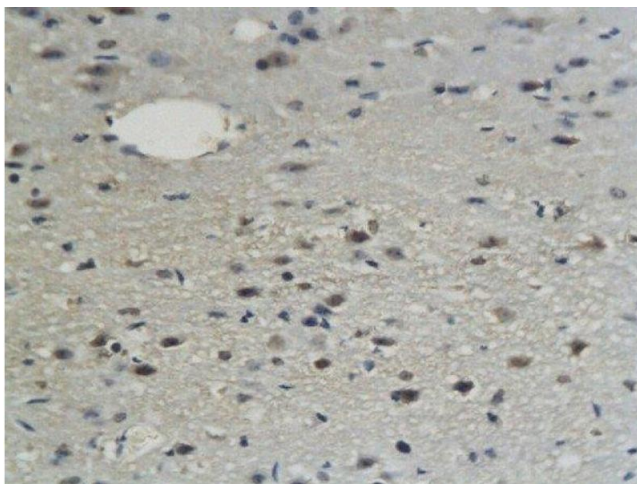
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Images



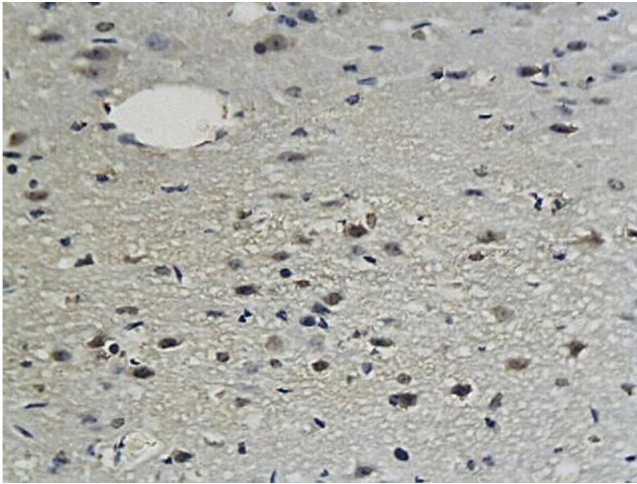
### SDS-PAGE

**Image 1.** Lane 1: mouse embryo lysates Lane 2: mouse heart lysates probed with Anti Sphingomyelin Synthase 1 Polyclonal Antibody, Unconjugated (ABIN705371) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 49kD. Observed band size: 49kD.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Formalin-fixed and paraffin embedded mouse brain labeled with Anti-Sphingomyelin Synthase 1 Polyclonal Antibody, Unconjugated followed by conjugation to the secondary antibody and DAB staining



### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin embedded mouse brain labeled with Anti-Sphingomyelin Synthase 1 Polyclonal Antibody, Unconjugated (ABIN705371) followed by conjugation to the secondary antibody and DAB staining